(19) 世界知的所有権機関 国際事務局



(43) 国際公開日 2005 年7 月28 日 (28.07.2005)

PCT

(10) 国際公開番号 WO 2005/069325 A1

(51) 国際特許分類7:

H01H 15/06

(21) 国際出願番号:

PCT/JP2004/000231

(22) 国際出願日:

2004年1月15日(15.01.2004)

(25) 国際出願の言語:

日本語

(26) 国際公開の言語:

日本語

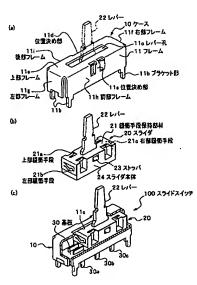
- (71) 出願人(米国を除く全ての指定国について): ミヤマ電器株式会社(MIYAMA ELECTRIC CO., LTD.) [JP/JP]; 〒1450064 東京都大田区上池台 4 7 1 Tokyo (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 三木 亨 (MIKI, Toru) [JP/JP]; 〒1450064 東京都大田区上池台5-22-5ミヤマ電器株式会社内 Tokyo (JP).

- (74) 代理人: 磯野 道造 (ISONO, Michizo); 〒1020093 東京都千代田区平河町2丁目7番4号 砂防会館別館内磯野国際特許商標事務所気付 Tokyo (JP).
- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) 指定国(接示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG,

[続葉有]

(54) Title: CUSHIONING MEANS HOLDING MEMBER AND SLIDE SWITCH WITH THE SAME

(54) 発明の名称: 緩衝手段保持部材およびそれを備えたスライドスイッチ



10...CASE 11...FRAME 11a...POSITIO

11...FRAME 11a...POSITIONING PART 11b...BRACKET PART 11c...LEVER HOLE 11d...POSITIONING PART

11e...UPPER FRAME 11f...RIGHT FRAME 11g...LEFT FRAME

11g...LEFT FRAME 11h...FRONT FRAME 11i...REAR FRAME 20...SLIDER

21...CUSHIONING MEANS HOLDING MEMBER

21a...UPPER CUSHIONING MEANS 21b...LEFT CUSHIONING MEANS 21c...RIGHT CUSHIONING MEANS

22...LEVER 23...STOPPER 24...SLIDER BODY

30...SUBSTRATE 100...SLIDE SWITCH (57) Abstract: A slide switch (100) switched by the sliding operation of a slider (20), comprising the slider (20) and a case (10) in which the slider (20) is inserted, the slider (20) further comprising cushioning means (upper part, left part, right part) (21a, 21b, 21c) provided on slider side contact portions where the slider (20) is brought into contact with the case (10) by the sliding operation of the slider (20) to relieve the contact therebetween and a cushioning means holding member (21) integrally supporting the cushioning means. The case (10) further comprises case inner surfaces for sliding the slider (20) thereon, and the case inner surfaces are opposed to each other along the horizontal direction. One of the inner surfaces of the case (10) comprises a positioning part (11a) positioning the slider (20) in three stages, and the other of the inner surfaces of the case (10) comprises a positioning part (11d) positioning the slider (20) in two stages. Thus, the occurrence of vibration noise from the slide switch caused by the vibration of a running vehicle and the occurrence of operation noise caused by the operation of the switch can be lowered to improve the operating feeling of the vehicle.